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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/085,524

02/26/2002

Ian A. Stewart

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25315 7590 07/08/2008  
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EXAMINER

ZIA, SYED

ART UNIT

PAPER NUMBER

2131

MAIL DATE

DELIVERY MODE

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PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/085,524	<b>Applicant(s)</b> STEWART, IAN A.	
	<b>Examiner</b> SYED ZIA	<b>Art Unit</b> 2131	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 08 April 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 14-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 14-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

This office action is in response to amendment filed on April 8, 2008. Original application contained Claims 1-11. Applicant previously amended Claims 1, and 7. Applicant previously added new claims 12-15, and cancelled Claims 2-5, 8-11, 14-15. Therefore, presently pending claims are 14, and 15.

#### ***Response to Arguments***

Applicant's arguments filed on April 8, 2008 have been fully considered but they are not persuasive because of the following reasons:

Regarding independent claims 14 and 15 applicants argued that cited prior art does not disclose the claimed subject matter, and also argued that “*participant key management that is being performed by Caronni is not the same as the manipulation of the IP addresses that is presently claimed*”.

This is not found persuasive. The system of cited prior art [Caronni et al. (U. S. Patent 6,049,878).] clearly teach system and method of secure communication network resource access control for access information that involves a group key management component, coupled to a traffic distribution component, and has data structure for storing all the participant's keys. The group key manager is aware of all currently active recipients as identified from the session

description information (i.e., IP address, keying material, and some identification) from the recipients. The participants are identified with an identification or ID number, the ID may simply correspond to the 32 bit IP address of the participant. The bit pattern of the ID of each participant defines which keys it shares with the group key manager (col. 5 line 59 to col. 7 line 54).

The participant key management component of a receiver holds a participant key shared with a sender and all receiving entities, and another participant key shared with the sender and to only one receiving entity (Fig. 1-5, col. 4 line 7 to col. 7 line 39).

As a result, the system of cited prior art does implement and teaches a system and method secure multicast transmission of data on Internet.

Therefore, the examiner asserts that the system of cited prior arts does teach or suggest the subject matter broadly recited in independent Claims and in subsequent dependent Claims. Accordingly, rejections for claims 14, and 15 are respectfully maintained.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 14, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Caronni et al. (U. S. Patent 6,049,878).

Regarding Claim 14 Caronni teach a method a method for performing a secure multicast broadcast at a router, the method (Fig.1-5) comprising:

sending a received request to join a multicast broadcast at a user system to an Internet Protocol (IP) multicast address (col.5 line 13 to line 30, and col.6 line 20 to line 39);  
determining if the multicast address of the request to join is associated with a multicast broadcast IP address (col.6 line 20 to line 39, and Fig.2, col.1 line 11 to line 40);  
receiving an encrypted multicast transmission from a first computer system associated with the multicast address (col.5 line 13 to line 30);  
if the request to join is associated with a multicast broadcast address, then removing the multicast broadcast IP address; decrypting the sent multicast broadcast (col.7 line 7 to line 39); attaching one of an associated or a local IP multicast address to the decrypted multicast broadcast (col.5 line 13 to line 30, and col.7 line 23 to line 67); and sending the decrypted multicast broadcast to the user system requesting to join (col.5 line 13 to line 30, and col.6 line 20 to line 39).

Regarding Claim 15 Caronni teach a router for sending a secure multicast broadcast, the router (Fig.1-5) comprising: a computer device (col.4 line 7 to col.5 line 12, and Fig.1, col.4 line 34 to line 50); configured to: send a received request to join a multicast broadcast at a user system to an Internet Protocol (IP) multicast address (col.4 line 7 to col.5 line 12, and Fig.1, col.4 line 34 to line 50); determine if the multicast address of the request to join is associated with a multicast broadcast IP address receive an encrypted multicast transmission from a first computer system associated with the multicast address (col.5 line 13 to line 30, and col.6 line 20

Art Unit: 2131

to line 39); if the request to join is associated with a multicast broadcast address, then remove the multicast broadcast IP address; decrypt the sent multicast broadcast; attach one of an associated or a local IP multicast address to the decrypted multicast broadcast; and send the decrypted multicast broadcast to the user system requesting to join (col.6 line 20 to line 39, and col.7 line 7 to line 67).

### ***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

Art Unit: 2131

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SYED ZIA whose telephone number is (571)272-3798. The examiner can normally be reached on 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SZ

June 25, 2008

/Syed Zia/

Primary Examiner, Art Unit 2131